Fig. 1

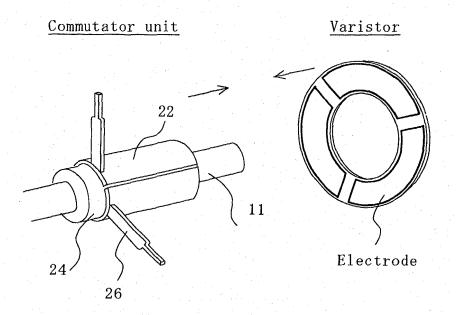
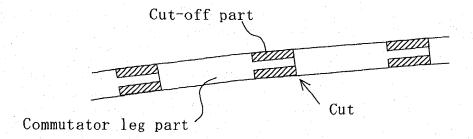
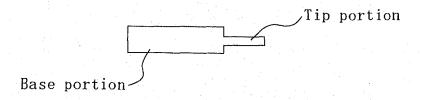


Fig. 2

Parent metal sheet to punch out commutator leg parts



## Commutator leg part



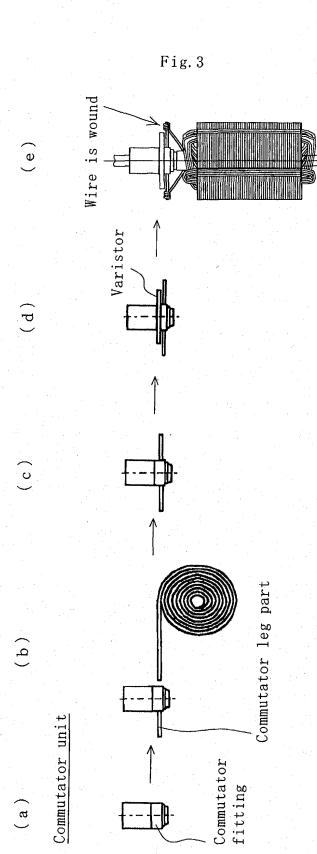


Fig. 4

## $\underline{\mathtt{Rotor}}$

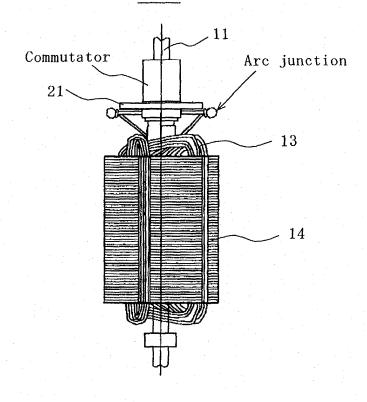


Fig. 5

## Prior art

## Commutator unit

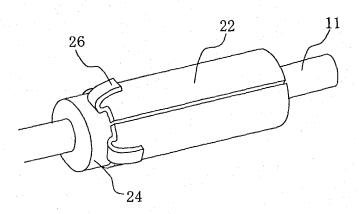


Fig. 6

Prior art

# Commutator unit

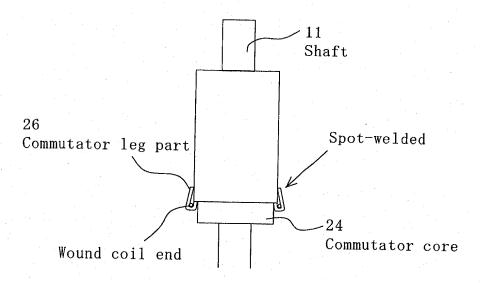


Fig. 7

Prior art

#### Commutator unit

